PTO/SB/08A (10-01)
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 2

Complete if Known					
Application Number	09/938,956				
Filing Date	AUGUST 24, 2001				
First Named Inventor	DICOSIMO ET AL.				
Group Art Unit	UNKNOWN				
Examiner Name	UNKNOWN				
Attorney Docket Number	CL1809 US NA				

U.S. PATENT DOCUMENTS						
Examiner Initials *	Cite No.1	Document Number  Number - Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
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Complete if Known 09/938,956 **Application Number** Filing Date **AUGUST 24, 2001** DICOSIMO ET AL. First Named Inventor UNKNOWN **Group Art Unit UNKNOWN Examiner Name CL1809 US NA Attorney Docket Number** 

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2 of Sheet

		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS	
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Ne		Colby et al., 4S-Limonene synthase from the Oil Glands of Spearmint (Mentha Spicata), Journal of Biological Chemistry. American Society of Biological Chemists, Vol. 268, NO. 31, November 5, 1993, pp. 23016-23024, XP000939217	
Ne	/	Bohlmann et al., Monoterpene Synthases from Grand Fir (Abies Grandis)CDNA Isolation, Characterization, and functional Expression of Myrcene Synthase, (-)-(4S)-Limonene Synthase, and (-)-(iS,5S)-Pinene Synthase, Journal of Biological Chemistry, American Society of Biological Chemists, Vol. 272, No. 35, August 29, 1997, XP000938120	
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Substitute for form 144	49A/PTO		Complete if Known	
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INFORMAT	ION DISCLOSURE	Filing Date	AUGUST 24, 2001	
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		Group Art Unit	UNKNOWN	
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Sheet 4.1.1	of 3	Attorney Docket Number	CL1809 US NA	

**U.S. PATENT DOCUMENTS** U.S. Patent Document Pages Columns, Lines, Where Relevant Name of Patentee or Applicant Date of Publication of Examiner Cite Cited Document Passages or Relevant Kind Code<sup>2</sup> of Cited Document No initials \* Number MM-DD-YYYY (if known) 09/07/1982 Hou 4,348,476 05/12/1998 Inomata et al. 5.750,821

FOREIGN PATENT DOCUMENTS								
	0.1-	Foreign Patent Document Name of Patentee Da		Date of Publication of	Pages, Columns, Lines, Where Relevant			
Examiner Initials*	Cite No.	Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)	or Applicant of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear	T <sub>δ</sub>
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R		Yuba et al., Arch Biochem Biophys 332:280-287. 1996	
Ne	• • · · · · · · · · · · · · · · · · · ·	Sharpe, D. H., BioProtein Manfacture 1989. Ellis Horwood series in applied science and industrial technology New York: Halstead Press.	
Ne		Villadsen, John. Recent Trends Chem. React. Eng., Proc. Int. Chem. React. Eng. Conf., 2 <sup>nd</sup> , 1987, Volume 2, 320-333. Editors Kulkamı et al., Publisher: Wiley East, New Delhi, India;	
NR	•	Naguib. M., Proc. OAPEC Symp. Petroprotein, Pap. 1980, Meeting Date 1979, 253-277, Publisher Organ. Arab Pet. Exporting Countries, Kuwait, Kuwait	
M		Tsien et al., Gas, Oil, Coal, Environ, Biotechnol. 2, Pap. Int. IGT Symp. Gas. Oil, Coal, Environ, Biotechnol., 2nd, 1990, 83-104. Editors Akin et al., Publisher: Inst. Gas Technol. Chicago, IL.	
Je.		Merkley et al., Biorem, Recalcitrant Org., Pap Int. In Situ On-Site Bioreclam. Symp., 3 <sup>rd</sup> , 1995, 165-74. Editors Hinchee et al., Publisher: Battelle Press, Columbus, OH	
De	•	Meyer et al., Microb. Releases, 1993, 2(1), pp. 11-22	
Ne	. !	Murrell et al., Arch. Microbiol., 2000, 173(5-6), 325-332	
Ne		Grigoryan, E. A., Kinet. Catal., 1999, 40(3), 350-363	
Ne	; 	Lois et al., Proc. Natl. Acad. Sci. USA 95: 2105-2110, 1998	
W		Takahashi et al., Proc. Natl. Acad. Sci. USA 95: 9879-9884, 1998	
Nl		Swiss Prot#Q46893	
Ne		Rohdich et al., Proc. Natl. Acad. Sci. USA 96: 11758-11763, 1999	
pl		SwissProt #P24209	
we		Luttgen et al., Proc. Natl. Acad. Sci. USA, 97: 1062-1067, 2000	

Examiner Signature	Naturel	5/24/64	Date Considered	
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W		Herz, Proc. Natl. Acad. Sci. USA 97: 2486-2490. 2000	
NP	,	SwissProt #P36663	
we		Weng et al., J. Biol. Chem., 261; pp.5568-5574, 1986	
We		Lange and Croteau, Proc. Natl. Acad. Sci. USA 96: 13714-13719, 1999	
Nl	-	Cunningham et al., J. Bac. 182 No. 20: 5841-5848, 2000	
NC		Ohto et al., Plant Mol. Biol. 40(2), 307-321, 1999	
ne		Beschastnyi et al., Inst. Biochem. Physiol. Microor., Pushchino, Russia, Biokhimiya (Moscow) 1992, 57(8), pp. 1215-1221	
Ne		Shishkina et al., Inst. Bikhim. Fiziol. Mikroorg., Pushchino, Russia, Mikrobiologiya, 1990, 59(4), 533-8	
we		Trotsenko et al., Studies on Phosphate metabolism in obligate methanotrophs, Fems Microbiology Reviews 87, 1990, pp. 267-272	

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